

Application No. 10/609,346
Response Dated November 21, 2006
Reply to Office Action of August 24, 2006

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1-50 (Canceled)

51. (New) A constructed polynucleotide comprising a member selected from the group consisting of:

- (a) a polynucleotide encoding a polypeptide as set forth in SEQ ID NO. 8;
- and
- (b) a polynucleotide contained in ATCC Deposit No: PTA-4607.

52. (New) The constructed polynucleotide of claims 51, wherein the polypeptide binds to a human albumin antibody.

53. (New) A recombinant vector comprising the sequence of the polynucleotide of claim 51.

54. (New) The recombinant vector of claim 53, wherein the vector is an expression vector for expressing a fusion protein in a host organism selected from the group consisting of mammal, fish, insect, plant, yeast, and bacterium.

55. (New) The recombinant vector of claim 54, wherein the host organism is yeast.

56. (New) The recombinant vector of claim 55, wherein a strain of the yeast is selected from the group consisting of *Saccharomyces*, *Candida*, *Pichia*,

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Kluyveromyces, Torulaspora, and Schinosaccharomyces.

57. (New) The recombinant vector of claim 55, wherein a strain of the yeast is *Pichia pastoris*.

58. (New) The recombinant vector of claim 55, wherein the recombinant vector is a yeast transfer vector comprising pPICZ A, pPICZ B, or pPICZ C.

59. (New) A recombinant cell containing the recombinant vector of claim 53.

60. (New) The recombinant cell of claim 59, wherein the cell is selected from the group consisting of mammalian, fish, insect, plant, yeast, and bacterial cells.

61. (New) The constructed polynucleotide of claim 51, wherein the polynucleotide comprises a fragment encoding human serum albumin (HSA) and a fragment encoding granulocyte colony stimulating factor (G-CSF).

62. (New) The constructed polynucleotide of claim 61, wherein the polynucleotide further comprises a fragment encoding an albumin secretion signal peptide.

63. (New) The constructed isolated polynucleotide of claim 61, wherein the polynucleotide further comprises a fragment encoding a peptide linker.

64. (New) The constructed polynucleotide of claim 61, wherein said polypeptide is a human albumin fusion protein.

65. (New) The constructed polynucleotide of claim 64, wherein said human albumin fusion protein is a human serum albumin (HSA) and granulocyte colony stimulating factor (G-CSF) fusion protein (HSA/G-CSF fusion protein).

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66. (New) The constructed polynucleotide of claim 65, wherein said HSA/G-CSF fusion protein has a shelf-life at least 5 times longer than that of the G-CSF alone when stored under a same condition.

67. (New) The constructed polynucleotide of claim 65, wherein said HSA/G-CSF fusion protein has a plasma half-life at least 3 times longer than that of the G-CSF alone when administered in vivo.